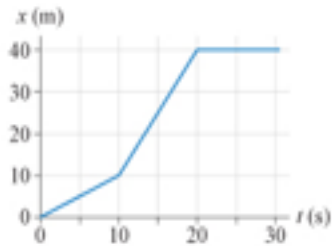


TEST #2 REVIEW SHEET

KNOW YOUR GRAPHING! Draw a velocity versus time graph from the position versus time graph



1. The slope on a position versus time graph is equal to the objects _____

What do the following slopes mean on a position verse time graph?!

2. Zero Slope - _____

3. Negative constant slope (above x axis) - _____

4. Positive constant slope (above x axis) - _____

5. Changing slope - _____

6. Gradual to steep- _____

7. Steep to gradual- _____

8. The slope on a velocity versus time graph is equal to the objects _____

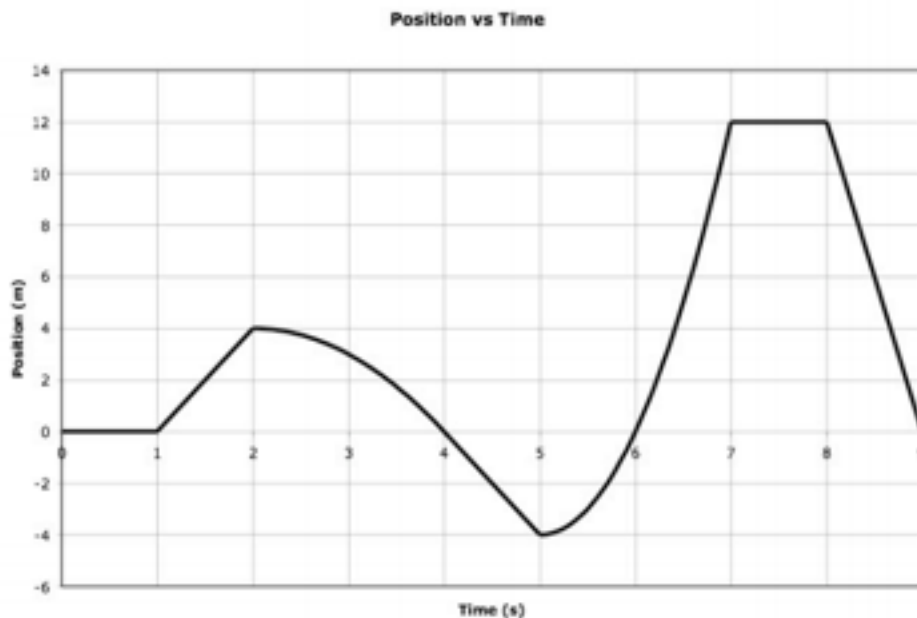
What do the following slopes mean on a velocity verse time graph?!

9. Zero slope - _____

10. Negative constant slope (above x axis) - _____

11. Positive constant slope (above x axis) - _____

Position/Velocity/Acceleration vs Time Practice



12. During which intervals is the acceleration zero? _____

13. What is the final position of the object? _____

14. When is the velocity negative while the position is positive? _____

15. When is the maximum speed achieved? _____

16. What type of line shows that there is an acceleration? _____

17. During what time intervals are there accelerations? _____

18. When is the velocity positive? _____

Relative speed / frame of reference

19. When do you add the speed to determine the relative speed?

20. When do you subtract the speeds to determine the relative speed?

21. When is the actual speed the relative speed?

Try these problems on your own!

A rabbit is hopping away from a dog. They are both headed North, the rabbit hopping at 3 m/s and the dog running at 2.6 m/s.

23. What is the speed of the dog relative to the rabbit.

24. A person is driving South on the street towards the rabbit and the dog. The person is driving at 10 m/s. What is the speed of the person driving **relative to the rabbit**?

25. Compare and contrast displacement and distance

26. Compare and contrast velocity and speed.

27. What is acceleration?

PHYSICAL SCIENCE

Name _____

DSHS
Mrs. Ellis**Show your work, include all units!!!**

1. A soccer ball begins at rest and is kicked. It reaches a velocity of 15 m/s after 4 s.

What is the ball's acceleration?

GIVEN VARIABLES	EQUATION	WORK / PICTURE	ANSWER
$v_i =$ $v_f =$ $t =$ $a = ?$			

2. A penguin begins sliding on the ice at 1 m/s and slows to 0 m/s in 8 s. What is the penguin's acceleration?

GIVEN VARIABLES	EQUATION	WORK / PICTURE	ANSWER
$v_i =$ $v_f =$ $t =$ $a = ?$			

3. A bee is flying at 0.5 m/s and suddenly gust of wind blows it to a velocity of 4 m/s over 2 s. What is the bee's acceleration?

GIVEN VARIABLES	EQUATION	WORK / PICTURE	ANSWER
$v_i =$ $v_f =$ $t =$ $a = ?$			

4. A bus has an acceleration of 6 m/s². If the bus's final velocity after 4 s is 35 m/s, what was the bus's initial velocity?

GIVEN VARIABLES	EQUATION	WORK / PICTURE	ANSWER
$v_i = ?$ $v_f =$ $t =$ $a =$			